

The listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A touch panel comprising:
a light guide panel including a first ~~translucent~~ light transmitting material;
an optical sensor array having a light receiving face thereof opposed to a first side face of said light guide panel;
a lens sheet having a light emitting face thereof opposed to a second side face of said light guide panel which is opposed to said first side face; and
illumination means for illuminating an incident light face of said lens sheet.
2. (Currently Amended) The touch panel according to claim 1, wherein a refractive index of said first ~~translucent~~ light transmitting material is 1.4 to 1.7.
3. (Original) The touch panel according to claim 1, wherein said light emitting face of said lens sheet has a plurality of prismatic or semicylindrical protrusions.
4. (Original) The touch panel according to claim 1, wherein said illumination means includes light emitting diodes.
5. (Currently Amended) The touch panel according to claim 1, wherein said touch panel is equipped with an input pen which is brought into contact with a surface of said light guide panel, and a contact portion of said input pen with said light guide panel includes a second ~~translucent~~ light transmitting material of which the refractive index is equal to or greater than that of said first ~~translucent~~ light transmitting material.

6. (Original) The touch panel according to claim 1, wherein said touch panel is equipped with an input pen which is brought into contact with a surface of said light guide panel, and a tail end portion of said input pen includes a material which absorbs illuminating light from said illumination means.

7. (Original) The touch panel according to claim 1 is mounted in front of a display screen of a display device.

8. (Original) The touch panel according to claim 7, wherein said display device is a liquid crystal display device.

9. (Original) The touch panel according to claim 7, wherein said display device is an electro-luminescence display device.

10. (Currently Amended) An electronic equipment provided with a display device and a touch panel, said touch panel comprising:

a light guide panel including a first ~~translucent~~ light transmitting material;

an optical sensor array having a light receiving face thereof opposed to a first side face of said light guide panel;

a lens sheet having a light emitting face thereof opposed to a second side face of said light guide panel which is opposed to said first side face; and

illumination means for illuminating an incident light face of said lens sheet,

wherein said touch panel is mounted in front of a display screen of said display device.

11. (Currently Amended) The electronic equipment according to claim 10, wherein a refractive index of said first ~~translucent~~ light transmitting material is 1.4 to 1.7.

12. (Original) The electronic equipment according to claim 10, wherein said light emitting face of said lens sheet has a plurality of prismatic or semicylindrical protrusions.

13. (Original) The electronic equipment according to claim 10, wherein said illumination means includes light emitting diodes.

14. (Currently Amended) The electronic equipment according to claim 10, wherein said touch panel is equipped with an input pen which is brought into contact with a surface of said light guide panel, and a contact portion of said input pen with said light guide panel includes a second ~~translucent~~ light transmitting material of which the refractive index is equal to or greater than that of said first ~~translucent~~ light transmitting material.

15. (Original) The electronic equipment according to claim 10, wherein said touch panel is equipped with an input pen which is brought into contact with a surface of said light guide panel, and a tail end portion of said input pen includes a material which absorbs illuminating light from said illumination means.

16. (Currently Amended) The electronic equipment according to claim 10, wherein said electronic equipment provided with said display device and said touch panel is selected from the group consisting of an information terminal equipment and an electronic notebook.

17. (Original) The electronic equipment according to claim 16, wherein said display device is a liquid crystal display device.

18. (Original) The electronic equipment according to claim 16, wherein said display device is an electro-luminescence display device.

19. (Currently Amended) A display device comprising:

a light guide panel comprising a first ~~transparent~~ light transmitting material over a display screen of said display device;

a plurality of optical sensors opposed to a first side face of said light guide panel, said plurality of optical ~~sensor array~~ sensors having a light receiving face thereof opposed to a first side face;

a lens sheet having a light emitting face thereof opposed to a second side face of said light guide panel which is opposed to said first side face; and

an illumination means for illuminating an incident light face of said lens sheet, said illumination means opposed to said second side face of said light guide panel,

wherein said lens sheet is provided between said second side face of said light guide panel and said illumination means.

20. (Currently Amended) The display device according to claim 19, wherein a refractive index of said ~~transparent~~ light transmitting material is 1.4 to 1.7.

21. (Previously Presented) The display device according to claim 19, wherein said light emitting face of said lens sheet has a plurality of prismatic or semicylindrical protrusions.

22. (Previously Presented) The display device according to claim 19, wherein said illumination means comprises light emitting diodes.

23. (Currently Amended) The display device according to claim 19, wherein said display device is equipped with an input pen which is brought into contact with a surface

of said light guide panel, and a contact portion of said input pen with said light guide panel comprises a second ~~transparent~~ light transmitting material of which the refractive index is equal to or greater than that of said first ~~transparent~~ light transmitting material.

24. (Previously Presented) The display device according to claim 19, wherein said display device is equipped with an input pen which is brought into contact with a surface of said light guide panel, and a tail end portion of said input pen comprises a material which absorbs illuminating light from said illumination means.

25. (Previously Presented) The display device according to claim 19, wherein said display device is a liquid crystal display device.

26. (Previously Presented) An electronic appliance comprising the liquid crystal display device according to claim 25, wherein said electronic appliance is selected from the group consisting of an information terminal equipment and an electronic note book.

27. (Previously Presented) The display device according to claim 19, wherein said display device is an electroluminescence display device.

28. (Previously Presented) An electronic appliance comprising the electroluminescence display device according to claim 27, wherein said electronic appliance is selected from the group consisting of an information terminal equipment and an electronic note book.

29. (Currently Amended) A display device comprising:
a light guide panel comprising a first ~~transparent~~ light transmitting material over a display screen of said display device;
a first optical sensor array opposed to a first side face of said light guide panel;

a second optical sensor array opposed to a second side face of said light guide panel;

a first lens sheet opposed to a third side face of said light guide panel;

a second lens sheet opposed to a fourth side face of said light guide panel;

a first illumination means opposed to said third side face of said light guide panel;

and

a second illumination means opposed to said fourth side face of said light guide panel,

wherein said first side face is opposed to said third side face, and said second side face is opposed to said fourth side face, and

wherein said first lens sheet is provided between said third side face of said light guide panel and said first illumination means, and said second lens sheet is provided between said fourth side face of said light guide panel and said second illumination means.

30. (Currently Amended) The display device according to claim 29, wherein a refractive index of said ~~transparent~~ light transmitting material is 1.4 to 1.7.

31. (Previously Presented) The display device according to claim 29, wherein said light emitting face of said lens sheet has a plurality of prismatic and semicylindrical protrusions.

32. (Previously Presented) The display device according to claim 29, wherein said illumination means comprises light emitting diodes.

33. (Currently Amended) The display device according to claim 29, wherein said display device is equipped with an input pen which is brought into contact with a surface of said light guide panel, and a contact portion of said input pen with said light guide

panel comprises a second ~~transparent~~ light transmitting material of which the refractive index is equal to or greater than that of said first ~~transparent~~ light transmitting material.

34. (Previously Presented) The display device according to claim 29, wherein said display device is equipped with an input pen which is brought into contact with a surface of said light guide panel, and a tail end portion of said input pen comprises a material which absorbs illuminating light from said illumination means.

35. (Previously Presented) The display device according to claim 29, wherein said display device is a liquid crystal display device.

36. (Previously Presented) An electronic appliance comprising the liquid crystal display device according to claim 35, wherein said electronic appliance is selected from the group consisting of an information terminal equipment and an electronic note book.

37. (Previously Presented) The display device according to claim 29, wherein said display device is an electroluminescence display device.

38. (Previously Presented) An electronic appliance comprising the electroluminescence display device according to claim 37, wherein said electronic appliance is selected from the group consisting of an information terminal equipment and an electronic note book.

39. (Currently Amended) A display device comprising:
a light guide panel comprising a first ~~transparent~~ light transmitting material over a display screen of said display device;
a plurality of optical sensors opposed to a first side face of said light guide panel;
a lens sheet opposed to a second side face of said light guide panel; and

an illumination means opposed to said second side face of said light guide panel, wherein said lens sheet is provided between said second side face of said light guide panel and said illumination means, and wherein said plurality of optical sensors are closely provided in said first side face of said light guide panel.

40. (Currently Amended) The display device according to claim 39, wherein a refractive index of said ~~transparent~~ light transmitting material is 1.4 to 1.7.

41. (Previously Presented) The display device according to claim 39, wherein said light emitting face of said lens sheet has a plurality of prismatic or semicylindrical protrusions.

42. (Previously Presented) The display device according to claim 39, wherein said illumination means comprises light emitting diodes.

43. (Currently Amended) The display device according to claim 39, wherein said display device is equipped with an input pen which is brought into contact with a surface of said light guide panel, and a contact portion of said input pen with said light guide panel comprises a second ~~transparent~~ light transmitting material of which the refractive index is equal to or greater than that of said first ~~transparent~~ light transmitting material.

44. (Previously Presented) The display device according to claim 39, wherein said display device is equipped with an input pen which is brought into contact with a surface of said light guide panel, and a tail end portion of said input pen comprises a material which absorbs illuminating light from said illumination means.

45. (Previously Presented) The display device according to claim 39, wherein said display device is a liquid crystal display device.

46. (Previously Presented) An electronic appliance comprising the liquid crystal display device according to claim 45, wherein said electronic appliance is selected from the group consisting of an information terminal equipment and an electronic note book.

47. (Previously Presented) The display device according to claim 39, wherein said display device is an electroluminescence display device.

48. (Previously Presented) An electronic appliance comprising an electroluminescence display device according to claim 47, wherein said electronic appliance is selected from the group consisting of an information terminal equipment and an electronic note book.

49. (Currently Amended) A display device comprising:
a light guide panel comprising a first ~~transparent~~ light transmitting material over a display screen of said display device;
an optical sensor array having a light receiving face thereof opposed to a first side face of said light guide panel;
a lens sheet having a light emitting face thereof opposed to a second side face of said light guide panel which is opposed to said first side face; and
an illumination means for illuminating an incident light face of said lens sheet,
wherein triangular pole shaped protrusions or semicylindrical shaped protrusions are continuously formed at said light emitting face of said lens sheet.

50. (Currently Amended) The display device according to claim 49, wherein a refractive index of said ~~transparent~~ light transmitting material is 1.4 to 1.7.

51. (Previously Presented) The display device according to claim 49, wherein said illumination means comprises light emitting diodes.

52. (Currently Amended) The display device according to claim 49, wherein said display device is equipped with an input pen which is brought into contact with a surface of said light guide panel, and a contact portion of said input pen with said light guide panel comprises a second ~~transparent~~ light transmitting material of which the refractive index is equal to or greater than that of said first ~~transparent~~ light transmitting material.

53. (Previously Presented) The display device according to claim 49, wherein said display device is equipped with an input pen which is brought into contact with a surface of said light guide panel, and a tail end portion of said input pen comprises a material which absorbs illuminating light from said illumination means.

54. (Previously Presented) The display device according to claim 49, wherein said display device is a liquid crystal display device.

55. (Previously Presented) An electronic appliance comprising the liquid crystal display device according to claim 54, wherein said electronic appliance is selected from the group consisting of an information terminal equipment and an electronic note book.

56. (Previously Presented) The display device according to claim 49, wherein said display device is an electroluminescence display device.

57. (Previously Presented) An electronic appliance comprising the electroluminescence display device according to claim 56, wherein said electronic

appliance is selected from the group consisting of an information terminal equipment and an electronic note book.

58. (Currently Amended) The display device comprising:

a light guide panel comprising a first ~~transparent~~ light transmitting material over a display screen of the display device;

an optical sensor array having a light receiving face thereof opposed to a first side face of said light guide panel;

a first lens sheet having a light emitting face thereof opposed to a second side face of said light guide panel which is opposed to said first side face;

a second lens sheet having a light emitting face thereof opposed to said optical sensor array which is opposed to said first side face;

an illumination means for illuminating an incident of light face of said lens sheet;

wherein said first lens sheet is provided between said second side face of said light guide panel and said illumination means, and said second lens sheet is provided between said first side face of said light guide panel and said optical sensor ~~arrays~~ array.

59. (Currently Amended) The display device according to claim 58, wherein a refractive index of said ~~transparent~~ light transmitting material is 1.4 to 1.7.

60. (Previously Presented) The display device according to claim 58, wherein said light emitting face of said lens sheet has a plurality of prismatic or semicylindrical protrusions.

61. (Previously Presented) The display device according to claim 58, wherein said illumination means comprises light emitting diodes.

62. (Currently Amended) The display device according to claim 58, wherein said display device is equipped with an input pen which is brought into contact with a surface of said light guide panel, and a contact portion of said input pen with said light guide panel comprises a second ~~transparent~~ light transmitting material of which the refractive index is equal to or greater than that of said first ~~transparent~~ light transmitting material.

63. (Previously Presented) The display device according to claim 58, wherein said display device is equipped with an input pen which is brought into contact with a surface of said light guide panel, and a tail end portion of said input pen comprises a material which absorbs illuminating light from said illumination means.

64. (Previously Presented) The display device according to claim 58, wherein said display device is a liquid crystal display device.

65. (Previously Presented) An electronic appliance comprising the liquid crystal display device according to claim 64, wherein said electronic appliance is selected from the group consisting of an information terminal equipment and an electronic notebook.

66. (Previously Presented) The display device according to claim 58, wherein said display device is an electroluminescence display device.

67. (Currently Amended) An electronic appliance comprising the electroluminescence display device according to claim 66, wherein said electronic appliance is selected ~~[[fro]]~~ from the group consisting of an information terminal equipment and an electronic note book.

68. (Currently Amended) A display device comprising:

a light guide panel comprising a first transparent light transmitting material over a display screen of the display device;

a first optical sensor array opposed to a first side face of said light guide panel;

a second optical sensor array opposed to a second side face of said light guide panel;

a first lens sheet opposed to a first side face of said light guide panel;

a second lens sheet opposed to a second side face of said light guide panel;

a third lens sheet opposed to a third side face of said light guide panel

a fourth lens sheet opposed to a fourth side face of said light guide panel;

a first illumination means opposed to said third side face of said light guide panel;

and

a second illumination means opposed to said fourth side face of said light guide panel,

wherein said first side face is opposed to said third side face, and said second side face is opposed to said fourth side face, and

wherein said first lens sheet is provided between said first side face of said light guide panel and said first optical sensor array, and second lens sheet is provided between said second side face of said light guide panel and said second optical sensor array, and

wherein said third lens sheet is provided between said third side face of said light guide panel and said first illumination means, and said fourth lens sheet is provided between said fourth side face of said light guide panel and said second illumination means.

69. (Currently Amended) The display device according to claim 68, wherein a refractive index of said transparent light transmitting material is 1.4 to 1.7.

70. (Previously Presented) The display device according to claim 68, wherein said light emitting face of said lens sheet has a plurality of prismatic or semicylindrical protrusions.

71. (Previously Presented) The display device according to claim 68, wherein said illumination means comprises light emitting diodes.

72. (Currently Amended) The display device according to claim 68, wherein said display device is equipped with an input pen which is brought into contact with a surface of said light guide panel, and a contact portion of said input pen with said light guide panel comprises a second transparent light transmitting material of which the refractive index is equal to or greater than that of said first transparent light transmitting material.

73. (Previously Presented) The display device according to claim 68, wherein said display device is equipped with an input pen which is brought into contact with a surface of said light guide panel, and a tail end portion of said input pen comprises a material which absorbs illuminating light from said illumination means.

74. (Previously Presented) The display device according to claim 68, wherein said display device is a liquid crystal device.

75. (Previously Presented) An electronic appliance comprising the liquid crystal display device according to claim 74, wherein said electronic appliance is selected from the group consisting of an information terminal equipment and an electronic note book.

76. (Currently Amended) The display device according to claim 68, wherein said display device is an ~~electroluminesence~~ electroluminescence display device.

77. (Previously Presented) An electronic appliance comprising the electroluminescence display device according to claim 76, wherein said electronic appliance is selected from the group consisting of an information terminal equipment and an electronic note book.

78. (New) The touch panel according to claim 1, wherein said light transmitting material comprises a translucent material.

79. (New) The electronic equipment according to claim 10, wherein said light transmitting material comprises a translucent material.

80. (New) The display device according to claim 19, wherein said light transmitting material comprises a translucent material.

81. (New) The display device according to claim 29, wherein said light transmitting material comprises a translucent material.

82. (New) The display device according to claim 39, wherein said light transmitting material comprises a translucent material.

83. (New) The display device according to claim 49, wherein said light transmitting material comprises a translucent material.

84. (New) The display device according to claim 58, wherein said light transmitting material comprises a translucent material.

85. (New) The display device according to claim 68, wherein said light transmitting material comprises a translucent material.